

## **EXPANDABLE COIL ENDOLUMINAL PROSTHESIS**

### **ABSTRACT OF THE DISCLOSURE**

A coiled stent (196) has a coiled stent body with a main body portion (106)  
5 and end portions (108). The end portions may be substantially less stiff than the body portion  
to help prevent tissue trauma. A graft material (124) may be used to cover at least the main  
body portion to create a coiled stent graft (122) in which adjacent turns (128) have gaps  
defined therebetween to create a generally helical gap (130). The coiled stent may have side  
elements (10) separated by connector elements (112) and be placeable in a contracted,  
10 reduced diameter state and in a relaxed, expanded diameter state. The connector elements are  
preferably generally parallel to the stent axis when placed in the contracted, reduced-diameter  
state, typically tightly wrapped around a placement catheter (136).